

MINCHAE KIM

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RESEARCH INTERESTS

Extended Reality; Cross Reality; Human-Computer Interaction; Human-AI Interaction

EDUCATION

M.S. in Computer Science and Engineering, Korea University	Mar. 2024 – Present
• Advisor: Prof. Gerard Joungyun Kim	
• Thesis: “JourneyVR: Designing for Continuous Workflow Experience in Virtual Reality”	
B.S. in Software, Sejong University	Mar. 2019 – Feb. 2024
• Cum Laude	
New Jersey City University	Jan. 2023 – Mar. 2023
• Exchange Student (Non-degree Program)	

RESEARCH EXPERIENCE

Digital eXperience Lab, Korea University	Mar. 2024 – Present
• Graduate Research Assistant (Advisor: Prof. Gerard Joungyun Kim)	
• Proposed and implemented an immersive system that supports spatially continuous task transitions in virtual reality, and conducted user studies to evaluate workflow continuity and user experience	
• Contributed to the design and evaluation of an immersive balance training environment that enhances users' tolerance to cybersickness	
Graphics Lab, Sejong University	Sep. 2023 – Jan. 2024
• Undergraduate Research Assistant (Advisor: Prof. Oh-Young Song)	
• Proposed and implemented a multimodal interface combining gesture and speech for intuitive control of visual effects in XR environments	
Mixed Reality & Interaction Lab, Sejong University	Feb. 2021 – Dec. 2022
• Undergraduate Research Assistant (Advisor: Prof. Jong-Weon Lee)	
• Designed and implemented interactive systems to enhance accessibility for users with visual impairments	

PUBLICATIONS

Conference & Journal Papers

1. Y.Yang, S.Kang, **M.Kim**, G.Kim, and H.Kim. BalanceVR: balance training to increase tolerance to cybersickness in immersive virtual reality. *Virtual Reality*, Vol. 29, no. 39. 2025 (IF = 4.2). [\[Link\]](#)

Posters

1. **M.Kim**, Y.Yang, and G.Kim. JourneyVR: Experience Design for Continuous Timed Activities in Virtual Reality. *IEEE Symposium on Mixed and Augmented Reality Adjunct (IEEE ISMAR-Adjunct '25)*. [\[Link\]](#)
2. J.Chi, **M.Kim**, and O.Song. Multimodal Interface for Controlling Visual Effects in XR Environment. *Korea Computer Graphics Society (KCGS '24)*.

Under Review

1. **M.Kim**, J.Ryu, Y.Yang, and G.Kim. JourneyVR: Designing for Continuous Workflow Experience in Virtual Reality. (*Full paper submitted to CHI '26*)

2. D.Joo, Y.Chang, J.Park, K.Jung, **M.Kim**, and G.Kim. Quantifying Low-Level Motor Effects of Emotion: Validating Fitts' Law in Affective Contexts. (*Full paper submitted to CHI '26*)

TEACHING EXPERIENCE

Teaching Assistant

- Deep Learning (*Korea University*) Fall 2025
- Artificial Intelligence (*Korea University*) Spring 2025
- Mathematics for Computer Science II (*Korea University*) Fall 2024
- Application of Advanced Programming Language (*Sejong University*) Spring 2022
- Basics of Software and Coding (*Sejong University*) Fall 2021
- Basics of Software Coding Based on Computational Thinking (*Sejong University*) Spring 2021

Tutor

- Unity Programming (*Sejong University*) Jul. 2022

TALKS & EXHIBITIONS

- Mixing in Reverse Optical Flow to Mitigate Vection and Simulation Sickness in Virtual Reality** Jun. 2024
- AWE USA 2024, Long Beach, California
- ITRC Talent Cultivation Competition** Apr. 2024
- World IT Show 2024, Seoul, South Korea

AWARDS & SCHOLARSHIPS

- Outstanding Exhibition Center (ITRC)** Apr. 2024
- Exhibited VR research focused on enhancing military training and reducing headset weight
- Second Place, Creative Design Competition (Sejong University)** Dec. 2023
- Developed a puzzle game featuring seamless transitions between 2D and 3D perspectives
- Global Excellence Scholarship (Sejong University)** Jan. 2023
- Awarded full-tuition scholarship for outstanding academic performance and leadership in international exchange programs
- First Place, Department of Software Academic Conference (Sejong University)** Jun. 2022
- Developed a VR campus simulation to facilitate freshmen orientation
- Grade Improvement Scholarship (Sejong University)** May 2021
- Awarded for demonstrating significant improvement in GPA
- Language Excellence Scholarship (Sejong University)** Apr. 2019
- Awarded for achieving a TOEIC score of 950+

SKILLS

- Programming Language:** C#, C++, Python, Java, Swift
- VR/AR:** Unity, Meta XR SDK, SteamVR, XR Interaction Toolkit
- AI:** TensorFlow, PyTorch
- Data Analysis:** JASP, RStudio, SAS, MATLAB
- Language:** English (Fluent), Korean (Native)